SEQUENCE LISTING

<110> National Institute of Advanced Industrial Science and Technology
KANKYO ENGINEERING Co., Ltd.

<120> NOVEL NUCLEIC ACID PROBES, METHOD FOR DETERMINING CONCENTRATIONS OF NUCLEIC ACID BY USING THE PROBES, AND METHOD FOR ANALYZING DATA OBTAINED BY THE METHOD.

<150> JP2000/193133
JP2000/236115
JP2000/292483

<151> June 27, 2000

<160> 69

<210> 1
<211> 15
<212> DNA
<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease and decrease in fluorescence emission of a nucleic acid probe labeled with Dabcyl and Texas Red upon the hybridization of the probe with a target nucleic acid.

<400> 1
gggggaaaa aaaaa 15

<210> 2
<211> 15
<212> DNA
<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease and decrease in fluorescence emission of a nucleic acid probe labeled with Dabcyl and Texas Red upon the hybridization of the probe with a target nucleic acid.

<400> 2
ttttttttc ccccc 15

<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<223> The base sequence was hybridized with 16S RNA gene of Escherichia coli.

<400> 3
ctg cct ccc gta gga gt 20

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<223> The base sequence was hybridized with 23S RNA gene of Escherichia coli JM109

<400> 4
ccc aca tcg ttt tgt ctg gg 20

<210> 5
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 5
atatatattt ttttttgttt ttttttttt 30

<210> 6
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 6
atatatattt ttttttgtt ttttttttt 30

<210> 7
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 7
atatatattt ttttttttgt ttttttttt 30

<210> 8
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 8
atatatattt ttttttttg ttttttttt 30

<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 9
atatatattt ttttttcttt ttttttttt 30

<210> 10
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 10
atatatattt ttttttcttt ttttttttt 30

<210> 11
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 11
atatatattt ttttttttctt ttttttttt 30

<210> 12
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 12
atatatattt ttttttttct ttttttttt 30

<210> 13
<211> 30
<212> DNA
<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 13
atatatattt ttttttttttc ttttttttttt 30

<210> 14
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 14
aacaaaaaaa atatatat 18

<210> 15
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 15
acaaaaaaaa atatatat 18

<210> 16
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 16
caaaaaaaaa atatatat 18

<210> 17
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 17

aaaaaaaaaa atatatat 18

<210> 18
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 18
aagaaaaaaa atatatat 18

<210> 19
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 19
agaaaaaaaa atatatat 18

<210> 20
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 20
gaaaaaaaaa atatatat 19

<210> 21
<211> 20
<212> DNA
<213> Artificial
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 21
tatatatata tttttggggg 20

<210> 22
<211> 20
<212> DNA

<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 22
tatatatata ttttttgggg 20

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 23
tatatatata tttttttggg 20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 24
tatatatata tttttttgg 20

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 25
tatatatata ttttttttg 20

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 26
tatatatata tttttccccc 20

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 27
tatatatata ttttttcccc 20

<210> 28
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 28
tatatatata tttttttccc 20

<210> 29
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 29
tatatatata ttttttttcc 20

<210> 30
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 30
tatatatata ttttttttttc 20

<210> 31
<211> 20

<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 31
tatatatata ttttttttt 20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 32
cccccaaaaa tatatatata 20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 33
ccccaaaaaa tatatatata 20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 34
cccaaaaaaa tatatatata 20

<210> 35
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the

probe with a target nucleic acid.
<400> 35
ccaaaaaaaa tatatatata 20

<210> 36
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 36
caaaaaaaaa tatatatata 20

<210> 37
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 37
gggggaaaaa tatatatata 20

<210> 38
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 38
ggggaaaaaa tatatatata 20

<210> 39
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 39
gggaaaaaaa tatatatata 20

<210> 40

<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 40
ggaaaaaaaa tatatatata 20

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 41
gaaaaaaaaa tatatatata 20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 42
aaaaaaaaaa tatatatata 20

<210> 43
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 43
ccccccttt tttttttt 18

<210> 44
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid

probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 44
gggggggaaaa aaaaaaaa 18

<210> 45
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 45
ttttttcccc cccccccc 18

<210> 46
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 46
aaaaaagggg gggggggg 18

<210> 47
<211> 15
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 47
aaaaaaaaag ggggg 15

<210> 48
<211> 15
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 48
ttttttttttc ccccc 15

<210> 49
<211> 15
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 49
gggggggggga aaaaa 15

<210> 50
<211> 15
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 50
ccccccccct ttttt 15

<210> 51
<211> 35
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806), which sequence is corresponding to the positions 1156 to 1190 of 16SrRNA in Escherichia coli JM109 strain. The oligonucleotide is an oligodeoxyribonucleotide in positions 1 to 16 and 25 to 35, and is an oligoribonucleotide in positions 17 to 24.
<400> 51
catccccacc ttcctccgagt tgaccccgg cagtc 35

<210> 52
<211> 21
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).
<400> 52
tcctttgagt tcccggccgg a 21

<210> 53
<211> 32
<212> RNA
<213> Artificial Sequence
<223> The RNA hybridizes specifically with a sequence of 16SrRNA

in Cellulomonas sp.KYM-7 (FERM P-16806).
<400> 53
ccctggtcgt aagggccatg atgacttgac gt 32

<210> 54
<211> 35
<212> RNA
<213> Artificial Sequence
<223> The RNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).
<400> 54
catccccacc ttcctccgag ttgaccccgg cagtc 35

<210> 55
<211> 17
<212> RNA
<213> Artificial Sequence
<223> The RNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).
<400> 55
ccttcctccg agttgac 17

<210> 56
<211> 35
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).
<400> 56
catccccacc ttcctccgag ttgaccccgg cagtc 35

<210> 57
<211> 36
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Agromobacterium sp. KYM-8(FERM P-11358).
<400> 57
catccccacc ttcctctcggc ttatcaccg gcagtc 36

<210> 58
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 58

ctttttttttt ccccccccc 19

<210> 58
<211> 17
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 58
tttcttttttt ccccccccc 19

<210> 60
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 60
ggggggggaa aaaaaaag 18

<210> 61
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 61
ggggggggaa aaaagaaa 18

<210> 62
<211> 17
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 62
cgggggggggt ttttttt 17

<210> 63
<211> 17
<212> DNA

<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 63
aaaaaaaacc cccccca 17

<210> 64
<211> 17
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 64
aaaaaaaacc ccccccc 17

<210> 65
<211> 17
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 65
aaaaaaaacc ccccccI 17

<210> 66
<211> 17
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 66
aaaaaaaacc ccccccg 17
<210> 67
<211> 50
<212> DNA
<213> Artificial Sequence
<223>
<400> 67
aaacgatgtg gcaaggccca gacagccagg atgttggctt agaagcagcc 50

<210> 68

<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 68
ccttcccaca tcgtttt 16

<210> 69
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 69
ccttcccata tcgtttt 16

<210> 70
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 70
ccttcccaaa tcgtttt 16

<210> 71
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 71
ccttcccaga tcgtttt 16

<210> 72
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid

probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 72
ccttccctga tcgtttt 16

<210> 73
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 73
ccttccctgt tcgtttt 16

<210> 74
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with the gene of 16SrRNA gene in Escherichia coli.
<400> 74
catcgtttac ggcgtggac 19

<210> 75
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with the gene of 16SrRNA gene in Escherichia coli.
<400> 75
ccagcagccg cggtaatac 19

<210> 76
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.
<400> 76
agagtttgat cctggctcag 20

<210> 77
<211> 19
<212> DNA
<213> Artificial
<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.
<400> 77
ggttaccttg ttacgactt 19

<210> 78
<211> 14
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.
<400> 78
cgggcggtgt gtac 14

<210> 79
<211> 23
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with the human -globin gene.
<400> 79
ctggtctcct taaacctgtc ttg 23

<210> 80
<211> 22
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with the human -globin gene.
<400> 80
ggttggccaa tctactccca gg 22

<210> 81
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes.with 16S RNA of Escherichia coli
<400> 81
citaacacat gcaagtcg 18

<210> 82
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with . 16S RNA of Escherichia coli
<400> 82
ttgtacacac cgcccgtca 19

<210> 83
<211> 22
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with 16S RNA gene of Paracoccus denitrificians DSM 413
<400> 83
ctaatccttt ggccataaa tc 22

<210> 84
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with 16S RNA gene of Paracoccus denitrificians DSM 413
<400> 84
agagtttgat cctggctc ag 20

<210> 85
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The DNA hybridizes with . 16S RNA gene of Paracoccus denitrificians DSM 413
<400> 85
ggttaccttg ttacgactt 19

<210> 86
<211> 21
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridized with of the sequence of the above no.83
<400> 86
gatttatcgc caaaggatta g 21

<210> 87
<211> 21
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no..83.
<400> 87
gatttatcgt caaaggatta g 21

<210> 88
<211> 19
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human.
<400> 88
cgcagccgag catggaaca 19

<210> 89

<211> 16
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human.
<400> 89
cgctgctgcc ctccgg 16

<210> 90
<211> 19
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human..
<400> 90
aagggcacgt gcacatggc 19

<210> 91
<211> 22
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human..
<400> 91
catcgtggag atgcagctga cg 22

<210> 92
<211> 25
<212> DNA
<213> Artificial Sequence
<223> A sequence of the CYP21 gene of human...
<400> 92
cctgcagcat catctgttac ctcac 25

<210> 93
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.88...
<400> 93
tcttccatgc tcggctgcg 19

<210> 94
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.88...
<400> 94
tcttccatgg tcggctgcg 19

<210> 95
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.89...
<400> 95
ccggagggca gcagcg 16

<210> 96
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.89...
<400> 96
ccggaggaca gcagcg 16

<210> 97
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.90...
<400> 97
gccatgtgca cgtgccctt 19

<210> 98
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.90..
<400> 98
gccatgtgca agtgccctt 19

<210> 99
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.91...
<400> 99
gcctgccacg aggctctcc 19

<210> 100
<211> 19
<212> DNA

<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.91...
<400> 100
gcctgccacc aggctctcc 19

<210> 101
<211> 25
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.92.
<400> 101
gtgaggtaac agatgatgct gcagg 25

<210> 102
<211> 25
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above no.92..
<400> 102
gtgaggtaac agttgatgct gcagg 25

<210> 103
<211> 18
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with a sequence of human CYP21 gene..
<400> 103
cttgggggg catatctg 18

<210> 104
<211> 22
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with a sequence of human CYP21 gene..
<400> 104
acatccggct.ttgactctct ct 22

<210> 105
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with a sequence of human CYP21 gene..
<400> 105

aagggcacgt gcacatggc 19

<210> 106
<211> 26
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with a sequence of human CYP21 gene..
<400> 106
cctgcagcat catctgttac ctcac 26

<210> 107
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with a sequence of human CYP21 gene..
<400> 107
aagggcacgt gcacatggc 19

<210> 108
<211> 25
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with a sequence of human CYP21 gene..
<400> 108
cctgcagcat catctgttac ctcac 25